

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: August 27, 2001, 15:40:57 ; Search time 193.18 seconds  
(without alignments) 1472.406 Million cell updates/sec

Title: US-09-784-340-3\_COPY\_18322\_18774

Sequence: 1 gtaagtactactgtctgtac.....tgtgtgttttcccttcag 453

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 730101 seqs, 313950809 residues

Total number of hits satisfying chosen parameters: 14602022

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Minimum DB seq length: 0
Maximum DB seq length: 20000000000
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Post-processing:	Minimum Match 0%
	Maximum Match 100%

```
Database :
1: N_Geneseq_0601.*
1: /SIDS1/gcgdata/geneseq/geneseqn/NA1980.DAT.*
2: /SIDS1/gcgdata/geneseq/geneseqn/NA1981.DAT.*
3: /SIDS1/gcgdata/geneseq/geneseqn/NA1982.DAT.*
4: /SIDS1/gcgdata/geneseq/geneseqn/NA1983.DAT.*
5: /SIDS1/gcgdata/geneseq/geneseqn/NA1984.DAT.*
6: /SIDS1/gcgdata/geneseq/geneseqn/NA1985.DAT.*
7: /SIDS1/gcgdata/geneseq/geneseqn/NA1986.DAT.*
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19: /SIDS1/gcgdata/geneseq/geneseqn/NA1998.DAT.*
20: /SIDS1/gcgdata/geneseq/geneseqn/NA1999.DAT.*
21: /SIDS1/gcgdata/geneseq/geneseqn/NA2000.DAT.*
22: /SIDS1/gcgdata/geneseq/geneseqn/NA2001.DAT.*
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SUMMARIES

Result	No.	Score	Query	Match	Length	DB	ID	Description
C	1	105.6	23.3	936	22	AAF58252		Oligonucleotide D1
C	2	105.6	23.3	936	22	AAF58253		Oligonucleotide D1
C	3	105.6	23.3	936	22	AAF58257		Oligonucleotide D1
C	4	105.6	23.3	936	22	AAF58259		Oligonucleotide D1
C	5	105.6	23.3	936	22	AAF58262		Oligonucleotide D2
C	6	105.6	23.3	938	22	AAF58255		Oligonucleotide D1
	7	104	23.0	936	22	AAF58252		Oligonucleotide D1
	8	104	23.0	936	22	AAF58254		Oligonucleotide D1
	9	104	23.0	936	22	AAF58257		Oligonucleotide D1
10	10	104	23.0	936	22	AAF58259		Oligonucleotide D1
	11	104	23.0	936	22	AAF58262		Oligonucleotide D2

12	1045	23.0	938	22	AAE58255	Oligonucleotide D1
C 13	57.2	12.6	244	22	AAE58238	Oligonucleotide D1
14	53.2	11.7	244	22	AAE58238	Oligonucleotide D1
15	43.2	9.5	611590	21	AAE23203	Arabidopsis thalia
16	38	8.4	400	18	AAV75016	Staphylococcus aur
17	38	8.4	14051	18	AAV74414	Staphylococcus aur
C 18	37.8	8.3	611590	21	AAE72303	Arabidopsis thalia
C 19	37.6	8.3	1378	21	ACS9645	Human secreted pro
C 20	37.6	8.3	1664976	19	AAZ1209	Methanococcus jann
21	37.2	8.2	926	21	AAA59489	DNA encoding Smad3
C 22	37.2	8.2	19124	18	AAE72882	Plasmodium var-7 p
C 23	37.2	8.2	19124	21	AAZ68287	Plasmodium var-7 p
C 24	37	8.2	1267	20	AAZ17188	Human gene express
25	36.2	8.0	378	21	ACS9951	Human secreted pro
C 26	36.2	8.0	1422	19	AAV60073	Immunoreactive lam
27	36.2	8.0	3129	20	AAZ0285	Borrelia burgdorfe
28	36	7.9	5454	21	AAAT0189	Plasmodium falcipa
29	36	7.9	9542	20	AAZ0260	Borrelia burgdorfe
30	36	7.9	163319	21	AAE72306	Arabidopsis thalia
31	35.8	7.9	1380	21	AAAT0124	Plasmodium falcipa
32	35.8	7.9	2100	21	AAE59235	Human secreted pro
C 33	35.8	7.9	5058	20	AAAX91106	Group B Streptococ
C 34	35.6	7.9	4968	21	AAZ55656	Helicobas armigera
C 35	35.4	7.8	1758	20	AAZ27611	Mouse CXCR4 coding
36	35.4	7.8	1877	19	AAV46370	Nucleic acid encod
C 37	35.4	7.8	910715	20	AAZ00248	Borrelia burgdorfe
C 38	35.2	7.8	510	19	AAV28775	Human interleukin-
C 39	35.2	7.8	884	18	AAAX14388	H. pylori GHP0 512
C 40	34.8	7.7	887	21	AAE59382	Human secreted pro
41	34.8	7.7	116277	20	AAZ00249	Borrelia burgdorfe
C 42	34.6	7.6	1940	20	AAZ00850	Human secreted pro
C 43	34.4	7.6	1903	20	AAZ00830	Human secreted pro
C 44	34.4	7.6	3165	20	AAZ09602	Nucleic acid seque
C 45	34.4	7.6	580073	18	AAE58480	Mycoplasma genital

## ALIGNMENTS

XX	RESULT	1
XX	ID	AAFS8252/c
XX		AAFS8252 standard; DNA; 936 BP.
XX	AC	AAFS8252;
XX	DT	24-APR-2001 (first entry)
XX	DE	Oligonucleotide D1835.
XX	KW	Electron-transfer group; ETM; mismatch; genot./ping;
XX	KW	gene expression; ss.
XX	OS	Synthetic.
XX	PN	WO200107665-A2.
XX	PD	01-FEB-2001.
XX	PF	26-JUL-2000; 2000MO-US20476.
XX	PR	26-JUL-1999; 990S-0145695.
XX	PR	17-MAR-2000; 2000US-0190259.
XX	PA	(CLIN-) CLINICAL MICRO SENSORS INC.
XX	PI	Umek RM;
XX	DR	WPI; 2001-159728/16.
XX	PT	Nucleic acids containing electron-transfer group, useful as labels in
XX	PT	hybridization assays, e.g. for genotyping, allowing repeat analyses on
XX		a single surface







Oy	122	tcatcacttgtaacggaatgtttggaaattgtagtcaataagctgaaccttct	181
Dd	519		460
Oy	182	tcatgagaatataggltttaagttaacaactggctaactaatcttatlccacttaa	241
Dd	459		400
Oy	242	tttaaccacttttgtttaagaatactcttcagtcctccacatalctglttaaac	301
Dd	399		340
Oy	302	tatttaaccaacatatattcgtcaccaaccgaatccaatcttactgaacatgtctg	361
Dd	339		280
Oy	362	gcttgataacataataactacggttatctacgtctcttattgaaaacaactaact	421
Dd	279		220
Oy	422	ttctaagtctcatgtgtgttttc	445
Dd	219		196
RESULT	7		
AAF58252			
ID	AAF58252	standard; DNA; 936 BP.	
XX	AAF58252;		
AC			
XX	24-APR-2001	(first entry)	
DT			
DE	Oligonucleotide D1835.		
XX			
KW	Electron-transfer group; ETM; mismatch; genotyping;		
RX	gene expression; ss.		
XX	Synthetic.		
OS			
PN	WO200107665-A2.		
PD			
PP	01-FEB-2001.		
XX			
PE	26-JUL-2000; 2000MO-US20476.		
XX			
PR	26-JUL-1999; 99US-0145695.		
PR	17-MAR-2000; 2000US-0190259.		
PA	(CLIN-) CLINICAL MICRO SENSORS INC.		
XX			
PL	Unex RM;		
XX			
DR	WPI; 2001-159728/16.		
PT			
PT	Nucleic acids containing electron-transfer group, useful as labels in		
PT	hybridization assays, e.g. for genotyping, allowing repeat analyses on		
PS	a single surface		
XX			
PS	Example 6; Page 127; 159pp; English.		
CC	The present invention relates to a composition comprising two nucleic		
CC	acids each containing an electron-transfer group (ETM) having		
CC	different redox potentials. The invention is used for electronic		
CC	detection of nucleic acids, especially of substitutions (mismatches)		
CC	and single-nucleotide polymorphisms, e.g. for genotyping,		
CC	monitoring gene expression.		
XX			
SQ	Sequence 936 BP; 4 A; 139 C; 10 G; 7 T; 776 other;		
Query Match	23.0%	Score 104;	DB 22; Length 936;

[illegible]

RESULT 8  
 AAF58254  
 ID AAF58254 standard; DNA; 936 BP.  
 XX  
 AC AAF58254;  
 XX  
 DT 24-APR-2001 (first entry)  
 XX  
 DE Oligonucleotide D1875.  
 XX  
 KW Electron-transfer group; ETM; mismatch; genotyping;  
 KW gene expression; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200107665-A2.  
 XX  
 PD 01-FEB-2001.  
 XX  
 PF 26-JUL-2000; 2000MO-US20476.  
 XX  
 PR 26-JUL-1999; 99US-0145695.  
 PR 17-MAR-2000; 2000US-0190259.  
 XX  
 PA (CLIN-) CLINICAL MICRO SENSORS INC.  
 XX  
 UMek RM;  
 PI  
 DR WPI; 2001-159728/16.  
 XX  
 XX Nucleic acids containing electron-transfer group, useful as labels in  
 PT hybridization assays, e.g. for genotyping, allowing repeat analyses on  
 PT a single surface -  
 XX  
 PS Example 6; Page 127; 159pp; English.  
 XX  
 CC The present invention relates to a composition comprising two nucleic

CC acids each containing an electron-transfer group (ETM) having  
CC different redox potentials. The invention is used for electronic  
CC detection of nucleic acids, especially of substitutions (mismatches)  
CC and single-nucleotide polymorphisms, e.g. for genotyping,  
CC monitoring gene expression.

XX Sequence 936 BP; 4 A; 144 C; 7 G; 5 T; 776 other;

Query Match 23.0%; Score 104; DB 22; Length 936;

Best Local Similarity 1.18; Pred. No. 1.2e-15; Matches 5; Conservative 302; Mismatches 137; Indels 0; Gaps 0;

YY 2 taagtactcgtgtacagactgatacaactgtactatgtatatacagaag 61  
DB 247 www. ....  
YY 62 aatgttaaatatccctgtagacatgttgaggatttactccacaatattgagtc 121  
DB 307 www. ....  
YY 122 tcatcactgttactcgaatgttggaattgtatgatacagatgtcaactttct 181  
DB 367 www. ....  
YY 182 tcatggaatatattagtttaagttaacaactgctactaagctttatcatcttaa 241  
DB 427 www. ....  
YY 242 ttctaccatttgttaagaatactcttcagtcctccacatattgtttaaac 301  
DB 487 www. ....  
YY 302 tatgttaacaacaattatcgtacacacagaatcatttactgaacatgtcttg 361  
DB 547 www. ....  
YY 362 gcttgatatacatatactacggtttatctacgttctttatgaacaacaatacaact 421  
DB 607 www. ....  
YY 422 ttctaatgtctatgtgtttttc 445  
DB 667 www. ....

RESULT 9

AAF58257 standard; DNA; 936 BP.

XX AAF58257;

XX 24-APR-2001 (first entry)

XX Oligonucleotide D1954.

XX Electron-transfer group; ETM; mismatch; genotyping;  
KW gene expression; ss.

XX Synthetic.

XX WO200107665-A2.

XX 01-FEB-2001.

XX 26-JUL-2000; 2000WO-US20476.

XX 26-JUL-1999; 99US-0145695.

XX 17-MAR-2000; 2000US-0180259.

XX (CLIN-) CLINICAL MICRO SENSORS INC.

XX Umek RM;

XX PI

XX WPI; 2001-159728/16.

XX Nucleic acids containing electron-transfer group, useful as labels in  
PT hybridization assays, e.g. for genotyping, allowing repeat analyses on  
PT a single surface

XX Example 6; Page 127; 159pp; English.

CC The present invention relates to a composition comprising two nucleic  
CC acids each containing an electron-transfer group (ETM) having  
CC different redox potentials. The invention is used for electronic  
CC detection of nucleic acids, especially of substitutions (mismatches)  
CC and single-nucleotide polymorphisms, e.g. for genotyping,  
CC monitoring gene expression.

XX Sequence 936 BP; 5 A; 142 C; 7 G; 6 T; 776 other;

Query Match 23.0%; Score 104; DB 22; Length 936;

Best Local Similarity 1.18; Pred. No. 1.2e-15; Matches 5; Conservative 302; Mismatches 137; Indels 0; Gaps 0;

YY 2 taagtactcgtgtacagactgatacaactgtactatgtatatacagaag 61  
DB 247 www. ....  
YY 62 aatgttaaatatccctgtagacatgttgaggatttctccacaatattgagtc 121  
DB 307 www. ....  
YY 122 tcatcactgttactcgaatgttggaattgtatgatacagatgtcaactttct 181  
DB 367 www. ....  
YY 182 tcatggaatatattagtttaagttaacaactgctactaagctttatcatcttaa 241  
DB 427 www. ....  
YY 242 ttctaccatttgttaagaatactcttcagtcctccacatattgtttaaac 301  
DB 487 www. ....  
YY 302 tatgttaacaacaattatcgtacacacagaatcatttactgaacatgtcttg 361  
DB 547 www. ....  
YY 362 gcttgatatacatatactacggtttatctacgttctttatgaacaacaatacaact 421  
DB 607 www. ....  
YY 422 ttctaatgtctatgtgtttttc 445  
DB 667 www. ....

RESULT 10

AAF58259 standard; DNA; 936 BP.

XX AAF58259;

XX 24-APR-2001 (first entry)

XX Oligonucleotide D2004.

XX Electron-transfer group; ETM; mismatch; genotyping;  
KW gene expression; ss.

XX Synthetic.

XX WO200107665-A2.

XX PN

XX XX











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